Building fairly green in Provo

Larry and Carol Walters

Where we started: August, 2005



- Our objective:
- Minimize total energy use through
 - Passive solar design
 - Energy efficient construction

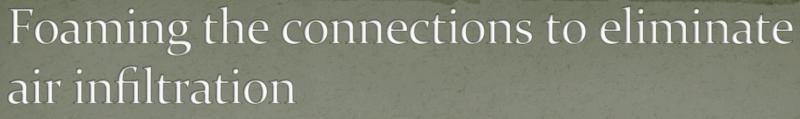




Structural Insulated Panel construction: 10" (R-40)









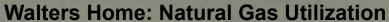
Windows: Triple-pane, hard E coating, Argon filled, Canadian

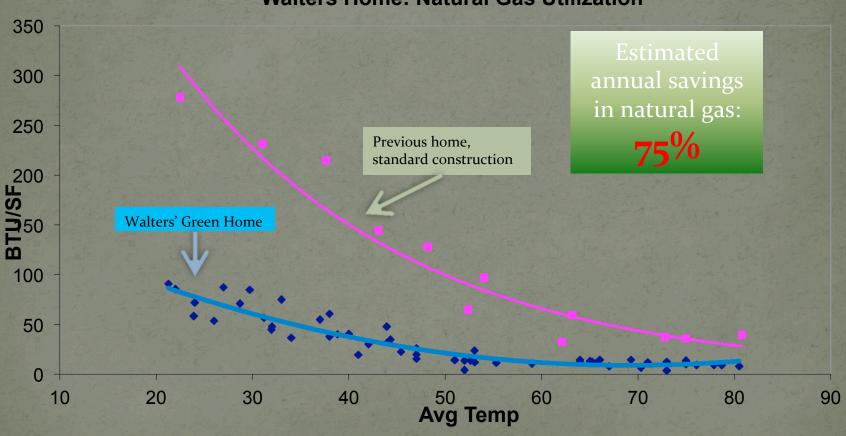




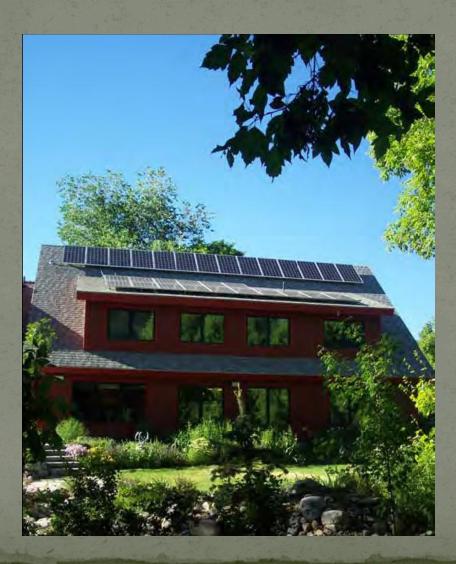


Did it work?

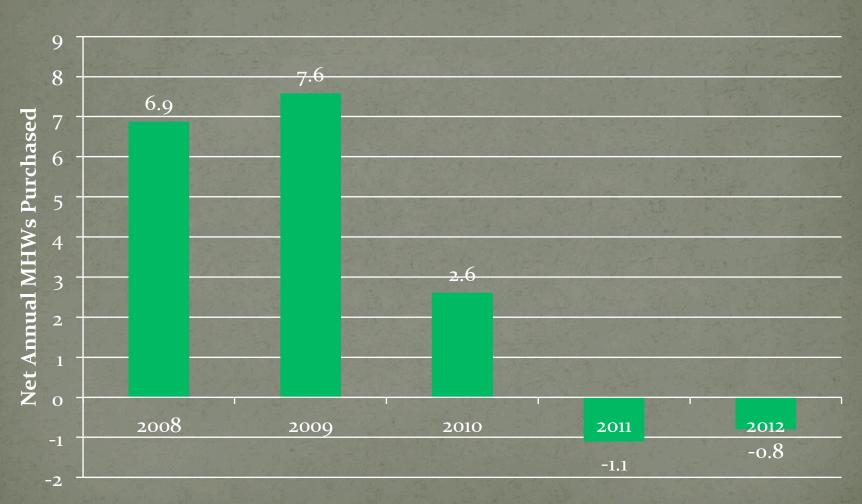




July 1, 2010: Solar panels installed



Net Electricity Savings: 100%



Investment analysis

- Actual cost of system (after rebates and tax credits):
 - **\$18,100**
- Average annual production: 10,595 KWH
- Cost per KWH from city electric utility (including taxes):
 - 9.35 cents/KWH
- Our cost of production (assuming a 25-year life):
 - 6.83 cents/KWH
- Return on investment: 5.5%